

What is claimed is:

1. A method for generating magnetic resonance images of a subject with a magnetic resonance apparatus based on a sequence in a framework of a subject examination comprising:

providing said magnetic resonance apparatus with specific parameters that comprise at least one of subject-specific and examination-specific parameters; and

determining, by said magnetic resonance apparatus, setting parameters that comprise at least one of optimum settings and setting ranges of sequence parameters, for a combination of said specific parameters for generating magnetic resonance images.

2. The method according to claim 1, further comprising:

allocating said setting parameters to said specific parameters via a table linkage.

3. The method according to claim 1, wherein said determining setting parameters is performed with a neural network for said specific parameters.

4. The method according to claim 1, wherein at least one of said subject-specific parameters is selected from the group consisting of mass, height, sex, age, date of birth, stature, body measurement, fat part, and proton density.

5. The method according to claim 1, wherein at least one of said examination-specific parameters is selected from the group consisting of sequence type, contrast preselection, and region of the subject to be imaged.

6. The method according to claim 1, further comprising:

entering at least one of said specific parameters by an operator of said magnetic resonance apparatus at said magnetic resonance apparatus.

7. The method according to claim 1, further comprising:  
automatically determining at least one said specific parameters by said magnetic resonance apparatus.

8. The method according to claim 1 wherein at least one of said setting parameters are selected from the group consisting of field of view, repetition time, echo time, matrix size, thickness of a slice to be imaged, number of averagings, bandwidth, and cut-off of a normalization filter.

9. An apparatus for generating magnetic resonance images of a subject with a magnetic resonance apparatus based on a sequence in the framework of a subject examination comprising:

a field magnetic system for producing magnetic resonance images;

an operating mechanism and a display for entering information; and

a central control system that connects said operating mechanism and said field magnetic system, said central control system comprising a processor, a database, and algorithms for controlling said apparatus for generating magnetic resonance images based on a sequence in a framework of a subject examination;

wherein,

said database comprises structures with specific parameters that comprise at least one of subject-specific and examination-specific parameters, said database further comprising structures with setting parameters that comprise at least one of optimum settings and setting ranges of sequence parameters, for a combination of said specific parameters for generating magnetic resonance images.

10. The apparatus according to claim 9, wherein said subject- specific parameters comprise at least one entity selected from the group consisting of mass, height, sex, age, date of birth, stature, body measurement, fat part, and proton density.

11. The apparatus according to claim 9, wherein said examination- specific parameters comprise at least one entity selected from the group consisting of sequence type, contrast preselection, and region of the subject to be imaged.

12. The apparatus according to claim 9, wherein said setting parameters comprise at least one entity selected from the group consisting of field of view, repetition time, echo time, matrix size, thickness of a slice to be imaged, number of averagings, bandwidth, and cut-off of a normalization filter.